## Aircraft Certification Service

## Transport Airplane Directorate "Short" Domestic Worksheet

Frequency Converter No Output Short Circuit Protection

DOCKET NUMBER: 2004-NM-79-A

Manufacturer's Service Information/Revision/Date (Attach 2 clean copies): Cost Board 11/21/0					
PROPC	DSED CORRESPONDING	ACTION:	<del></del>		
	Emergency AD		Is this action one of the fol	lowing? RECEIL	
	- Immediately Adopted AD		Supersedure of AD	APD	
X	Notice of Proposed Rulemakin	 1g	Revision of AD (Docket N	APR 2 U 2004	
	Final rule after NPRM		Revision of AD (Docket N Supplemental NPRM (Do	cket No. TBD9-114	
	(If FRAN, complete Attachment A.)		(If any of the above is checked, compa	lete Attachment B.)	
	Other (No-Notice Final Rule)				
ACO Dwo	picot Engineer Name/Title		Pinh V. Tron / Agreeman En	ainoon	
Branch:	oject Engineer Name/Title: ANM-130S	Telephone:	Sinh V. Tran / Aerospace Engineer 425-917-6485		
Backup I	Engineer:	Telephone:			
1 Model	Applicability, # Airplanes (both	IIS & worldwide)	- Refer to SR: state any differ	onces for this AD:	
# U.S. air Source:	dated November 7, 2002, 7	# wo	vision 1, dated May 15, 2003, ion 0, dated October 17, 2003 orldwide airplanes: 147	5/17 - C	
2. What h	has the manufacturer told the FA. background/events that prompted	A?	"The FAA has received repenses. Refer to SB 'Reason.'	ports indicating that"	
circuit bro	analysis has shown that a hard shor eaker will produce a continuous cu are rating of 150 degree C	rt condition betwee urrent of 55 amps, o	n the output of frequency conveausing the undersized output	verter and its downstream wiring to exceed its wire	
	and a				
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3a. What is the unsafe condition AND its cause?  Describe unsafe condition and its cause in 2-3 sentences (r	"These actions are intended to prevent" non-technical terms). Refer to SB 'Reason.'
Frequency Converter has no output short circuit protection	may cause overheat condition.
3b. What is the end-level effect on the airplane? Provide a 1-sentence description; use non-technical terms.	"which could result in"
If the output of Frequency Converters is shorted, it will ove failure may affect other systems sharing the impacted bund	
AD Relevant Service Information Section:	
4. (Yes or No) Is the corrective action required in this AD	considered to be interim action?
NO	
5. (Yes or No) Is this action considered 'sensitive', or is it (If yes, state why sensitive, and/or provide copy of FAA/NS	
NO	
6. Does the referenced service document include reference [If yes, specify whether that procedure employed by the open addresses the identified unsafe condition and provides and	erator (even if not technically 'equivalent') adequately
NO	
7. AD Differences Section (if needed):	"This AD differs from the SB
	inating Action Contact Mgr, FAA
Compliance time Mandate AFM	Action
Describe any other differences between service bulletin as	and this proposed $\overline{FAA}AD$ .
None	
AD Cost Impact Section:	
8a. Work hours for corrective action(s) required: (List ho	ours or reference SB 'Manpower').
For 747 airplanes: 4.75 hours per converter. For 767: 1.75 hours per converter For 777: 4.00 hours per airplane	
8b. Parts Cost, if any: (List costs or reference SB 'Materi	al - Cost and Availability').

Negligible

9. AD Body Section:						
For EACH corrective action, mark i	up SB, if usable -OR- fill out Corre	ective Action Table below.				
	requency converter and perform fur ce Bulletins 747-25-3313, Rev 1, de	rs. Route frequency converter to Avionic actional test. All the above activities to be ated May 15, 2003, 767-25-0335 Revision 0, 02.				
What is its compliance time? (Add grace period if not available) What is repetitive interval?	Within 18 months from the effect N/A	rive date of this AD.				
9b: Action # 2 What is the corrective action? What is its compliance time? (Add grace period if not available) What is repetitive interval?						
10. (Yes or No) Should corrective ac	tion(s) required in this AD to be a	pplied to spares as well?				
11. Should a ferry flight permit be: X Permitted Permitted with limitations* Prohibited *List limitations.						
12. With whom outside the FAA has this proposal been discussed (i.e. ATA, RAA, ALPA, etc.)?  NOTE: This item should be completed prior to submission of the AD Proposal Worksheet.						
BACG Do	rson Contacted wid Nguyen 11/02 parlie Bautz 01/13/04	Reaction Concurrence Concurrence				
13. Check the appropriate response:  Yes No X Does this action affect the Presidential fleet?  Yes No X Does this action affect the FAA fleet?  Yes No X Was this action prompted by the use of suspected unapproved parts (SUP)?						
Maintenance Q	cribes the cause of the unsafe connapproved Parts uality Control Problem** *Reporting Reqt Needed?	Operational Other (specify):				